Title (en)

FAULT CURRENT LIMITER CIRCUIT BREAKER

Title (de)

FEHLERSTROMBEGRENZERSCHUTZSCHALTER

Title (fr)

DISJONCTEUR DE LIMITEUR DE COURANT DE DÉFAUT

Publication

EP 3879548 A1 20210915 (EN)

Application

EP 20162221 A 20200310

Priority

EP 20162221 A 20200310

Abstract (en)

The present disclosure relates to a method of operating a Fault Current Limiter Circuit Breaker (FLCB) (1) comprising a plurality of FLCB modules (2) connected in series, including at least a first module (2a) and a second module (2b). Each module comprises a plurality of parallel component legs comprising a mechanical switch leg (3) comprising a mechanical switch (3a), a semiconductor switch leg (4) comprising a semiconductor switch (4a; 4b), and a Metal Oxide Varistor (MOV) leg (5) comprising a MOV (5a). The method comprises, when the FLBC is in an open configuration, obtaining an indication that the FLCB should be closed; in response to the obtained indication, closing the semiconductor switch of each of the modules; and, after the closing of the semiconductor switches and while the mechanical switch of the second module remains open, closing the mechanical switch of the first module.

IPC 8 full level

H01H 9/54 (2006.01)

CPC (source: EP US)

H01H 9/542 (2013.01 - EP); **H02H 3/025** (2013.01 - US); **H02H 7/22** (2013.01 - US); H01H 2009/543 (2013.01 - EP); H01H 2009/544 (2013.01 - EP)

Citation (search report)

- [A] WO 2014053554 A1 20140410 - ABB TECHNOLOGY AG [CH]
- [A] EP 2963751 A1 20160106 - STATE GRID CORP CHINA SGCC [CN], et al
- [A] EP 3407446 A1 20181128 - NR ELECTRIC CO LTD [CN], et al

Cited by

CN110423702A

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3879548 A1 20210915; **EP 3879548 B1 20221221**; CN 115280448 A 20221101; US 11757276 B2 20230912; US 2023124793 A1 20230420; WO 2021180397 A1 20210916

DOCDB simple family (application)

EP 20162221 A 20200310; CN 202180020633 A 20210201; EP 2021052320 W 20210201; US 202117906058 A 20210201